

4 HTML版の特長

Mail Print Save Bookmark

Access for partners

Contents of this article

5.1 Introduction

5.2 Materials

5.2.1 Preparation of Cancer...

5.2.2 Dissociation of Prima...

5.2.3 Specialized Culture M...

5.2.4 Sorting of Dissociate...

5.2.5 Transplantation of So...

5.3 Methods

5.3.1 Preparation of Cancer...

5.3.2 Dissociation of Prima...

5.3.3 Specialized Culture M...

5.3.4 Sorting of Dissociate...

5.3.5 Transplantation of So...

5.3.6 Conclusion

5.4 Notes

References

5. Prospective Identification of Cancer Stem Cells with the Surface Antigen CD133

By: Kyeong Min Joo¹, Do-Hyun Nam¹

Affiliation(s): (1) Department of Neurosurgery, Samsung Medical Center, Cancer Stem Cell Research Center, Sungkyunkwan University School of Medicine, Seoul, Korea

Book Title: [Cancer Stem Cells : Methods and Protocols](#)

Series: Methods in Molecular Biology | **Volume:** 568 | **Pub. Date:** Mar-01-2008 | **Page Range:** 57-71 | **DOI:** 10.1007/978-1-59745-280-9_5

Subject: [Cancer Research](#)

Abstract

Download PDF (387K)

Cancer cells do not share equal tumor-initiating potential. Only cancer stem cells (CSCs) can initiate cancer, which is important clinically because they should be eradicated to treat cancer patients. The purpose of experimental methods for identification of CSC is to isolate CSCs among various kinds of cancer cells in cancer masses. To identify CSCs, cancer masses derived from patients should be dissociated into single cells. Dissociated cells are classified into several groups according to expression status of one or several surface proteins using magnetic cell sorting (MACS) or fluorescence-activated cell sorting (FACS) methods. Sorted cells are cultured in a specialized culture medium for stem cells or inoculated into the primary cancer site of immunodeficient mice. In this chapter detailed experimental methods will be described and glioblastoma will be used as an example of solid cancers.

Key Words: Cancer stem cell - Marker - Glioblastoma - Dissociation methods - Primary culture - MACS - FACS - Animal model

Inside SpringerProtocols

- Source Title List
- New Protocols
- Free Protocols
- Popular Protocols
- Tour
- For Contributors/Editors
- For Library Admins

Useful Tools

Post to [citeulike](#)

- Related Books
- Similar Protocols
- Export Citation
- Comment

Contents of this article (目次)
表示されているプロトコルの各項目にジャンプ

ハイパーリンク
同一の著者、書籍、分野や表示されたキーワードに関するプロトコルにジャンプ
例: 書籍名をクリックすると同じ書籍の全てのプロトコル一覧を表示

Related Books

Free Subscribed Trial

Cancer Stem Cells : Methods and Protocols
Editor(s): John S. Yu
Series: Methods in Molecular Biology; Volume No.: 568
Pub. Date: Mar-01-2008; DOI: 10.1007/978-1-59745-280-9
Contents

Germline Stem Cells
Editor(s): Steven X. Hou, Shree Ram Singh
Series: Methods in Molecular Biology; Volume No.: 450
Pub. Date: Apr-01-2008; DOI: 10.1007/978-1-60327-214-8
Contents

Protocols for Adult Stem Cells
Editor(s): Irina M. Conboy, Mary Helen Barcellos-Hoff, David V. Schaffer, Song Li
Series: Methods in Molecular Biology; Volume No.: 621
Pub. Date: July-01-2009; DOI: 10.1007/978-1-60761-063-2
Contents

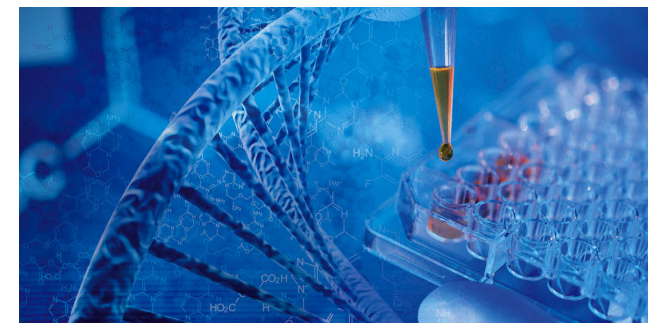
Similar Protocols

Free Subscribed Trial

Prospective Identification of Cancer Stem Cells with the Surface Antigen CD133
Author(s): Kyeong Min Joo, Do-Hyun Nam
Pub. Date: Mar-01-2008; DOI: 10.1007/978-1-59745-280-9_5
Summary: Cancer cells do not share equal tumor-initiating potential. Only cancer stem cells (CSCs) can initiate cancer, which is important clinically because they should be eradicated to treat cancer patients....
Abstract | Full Text | PDF (387K)

Identification of Human Pancreatic Cancer Stem Cells
Author(s): Chenwei Li, C. J. Lee, Diane M. Simeone
Pub. Date: Mar-01-2008; DOI: 10.1007/978-1-59745-280-9_10
Summary: Emerging evidence suggests that malignant tumors are composed of a small subset of distinct cancer cells, termed "cancer stem cells" (typically less than 5% of total cancer cells based on cell surface...
Abstract | Full Text | PDF (333K)

Proteomic Evaluation of Cancer Cells: Identification of Cell Surface Proteins



シュプリンガー・プロトコルズ

Springer Protocols

クイック ユーザーガイド

目次

1. トップページ
2. 簡易検索
3. 絞り込み検索
4. HTML版の特長

シュプリンガー・ジャパン株式会社 マーケティング部

● 所在地: 〒101-0065 東京都千代田区西神田3-8-1 千代田ファーストビル東館 ● 電話: 03-6831-7013 ● ファックス: 03-6831-7006 ● 電子メール: market@springer.jp
● グローバル・サイト: www.springer.com ● ローカル・サイト: www.springer.jp ● Twitter: twitter.com/SpringerJapan ● Facebook: facebook.com/SpringerJapan

springerprotocols.com



1 トップページ



検索ツール

- 簡易検索
- 詳細検索 (Advanced Search)
- プロトコルを分野別にブラウズ

Inside SpringerProtocols

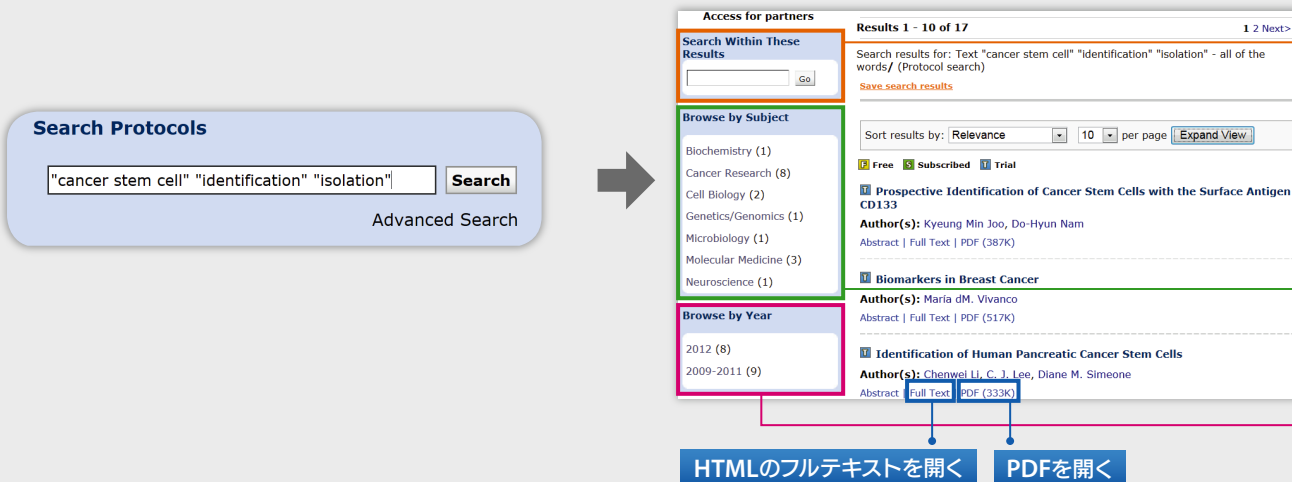
- タイトルリスト (本・ジャーナル)
- 新着、無料、人気のプロトコル
- ビデオチュートリアル
- 図書館員用ツール

ユーザー用ツール

- アカウント管理
- プロトコルのアップロード
- メールアラート登録
- コメントを読む、入力する
- 保存したプロトコル
- RSS フィード

2 簡易検索

検索ボックスに検索ワードを入力
▶ Searchボタンをクリック



3 絞り込み検索

検索結果を発行年別、分野別に表示
検索結果をさらに絞り込む方法:

